

**(19) World Intellectual Property
Organization
International Bureau**



(43) International Publication Date
26 February 2004 (26.02.2004)

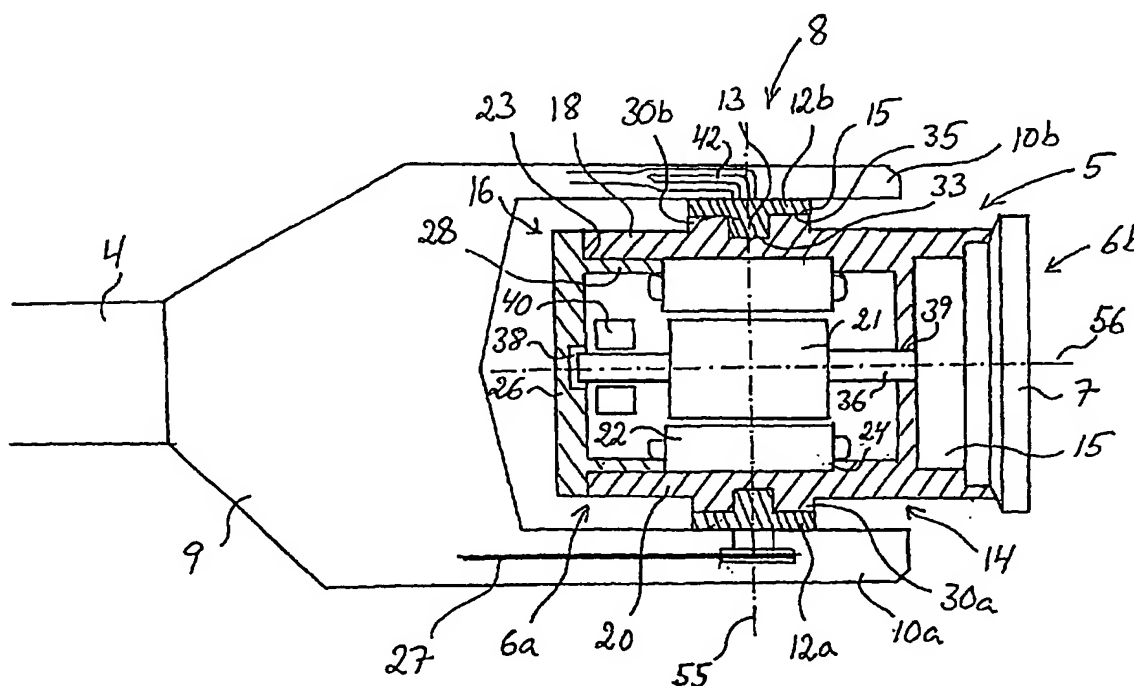
PCT

(10) International Publication Number
WO 2004/016401 A1

- | | |
|--|---|
| <p>(51) International Patent Classification⁷: B25J 17/02</p> <p>(21) International Application Number:
PCT/SE2003/001291</p> <p>(22) International Filing Date: 19 August 2003 (19.08.2003)</p> <p>(25) Filing Language: Swedish</p> <p>(26) Publication Language: English</p> <p>(30) Priority Data:
0202445-3 19 August 2002 (19.08.2002) SE</p> <p>(71) Applicant (for all designated States except US): ABB AB [SE/SE]; Kopparbergsvägen 2, S-721 83 Västerås (SE).</p> <p>(72) Inventors; and</p> <p>(75) Inventors/Applicants (for US only): LUNDSTRÖM, Christer [SE/SE]; Renvägen 4, S-74571 Enköping (SE). NISSFOLK, Rafael [SE/SE]; Bandygatan 24, S-722 40 Västerås (SE).</p> <p>(74) Agent: ABB AB; Legal & Compliance/Intellectual Property, S-721 78 Västerås (SE).</p> | <p>(81) Designated States (national): AE, AG, AL, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK (utility model), SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.</p> <p>(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).</p> <p>Published:
— <i>with international search report</i></p> |
|--|---|

[Continued on next page]

(54) Title: A ROBOT WRIST COMPRISING A DRIVE UNIT INCORPORATED IN A TILT



(57) Abstract: A robot wrist for an industrial robot, wherein the robot wrist (8) comprises a wrist part (5), here designated tilt, mounted at a wrist housing (9) of the industrial robot. The tilt (5) is rotatable relative to the wrist housing (9) about an axis of rotation (55) and comprises a drive unit (14) that comprises a motor (16) with a motor housing (18).



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.